

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-720-A
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TGM4.32PGKEK Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation
Three Way Catalytic Converter
Dual Heated Oxygen Sensors
Heated Oxygen Sensors (Two)
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

<u>Loaded Vehicle</u> <u>Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
3751-5750	50,000	0.32	4.4	0.7	12.5
	100,000	0.40	5.5	0.97	n/a

The certification exhaust emission values for this engine family in grams per mile are:

<u>Loaded Vehicle</u> <u>Weight(lbs.)</u>	<u>Miles</u>	<u>Non-Methane</u> <u>Hydrocarbons</u>	<u>Carbon</u> <u>Monoxide</u>	<u>Nitrogen</u> <u>Oxides</u>	<u>Carbon</u> <u>Monoxide (20°F)</u>
3751-5750	50,000	0.18	1.7	0.3	3.6
	100,000	0.23	2.2	0.42	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

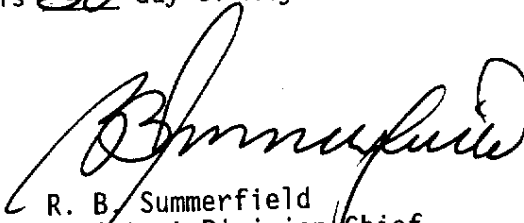
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 30th day of August 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEK

EVAP STD: 50K ☒ USEFUL LIFE WITH R/L ☒

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0 ☐ TIER-1 ☒ TLEV ☐ LEV ☐ ULEV ☐ ZEV ☐; EPA TIER-0 ☐ TIER-1 ☒VEH CLASS(ES): PC ☐ LDT1 ☐ LDT2 ☒ MDV1 ☐ MDV2 ☐ MDV3 ☐ MDV4 ☐ MDV5 ☐

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO ☐ PH2 ☒ DIESEL: 13 CCR 2282 ☐ OR 40 CFR 86.113-90 ☐OR -94 ☐ M85 ☐ CNG ☐ LPG ☐ OTHER (SPECIFY) FUEL TYPE(S): DEDICATED ☒ FLEX-FUEL ☐ DUAL-FUEL ☐ GASOLINE ☒ DIESEL ☐ M85 ☐CNG ☐ LNG ☐ LPG ☐ OTHER (SPECIFY) HYBRID: TYPE A ☐ B ☐ C ☐ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT ☒ MID ☐ REAR ☐ DRIVE: FWD ☐ RWD ☒ 4WD-FT ☐ 4WD-PT ☒

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
1.1A	T10603+E62 T10653+E62 T10603+E63 T10803+E63 T10653+E63	A4	3875 4000	16200785/ 16192372-ENG 16192379. 16192380. 16192381-TRANS 16227245PF-OPER	17096188. 17096309	25152878
1B				16227498-ENG 16232915PG-OPER		
1C				16232332-ENG 16235505PH-OPER		
2.2A	T10603+E62 T10603+E63 T10803+E63 T10653+E62 T10653+E63		4000 4250	16200785/ 16192372-ENG 16192379. 16192380. 162192381-TRANS 16227245PF-OPER		
2B				16227498-ENG 16232915PG-OPER		
2C				16232332-ENG 16235505PH-OPER		

CARLINE NAME

CARLINE CODE

CHEV S10 PICKUP 4WD
CHEV SONOMA PICKUP 4WD55037
80027

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

17-TGM4.32PGKEK-2.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEK

VAP STD: 50K ☒ USEFUL LIFE WITH R/L ☒

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0 ☐ TIER-1 ☒ TLEV ☐ LEV ☐ ULEV ☐ ZEV ☐; EPA TIER-0 ☐ TIER-1 ☒VEH CLASS(ES): PC ☐ LDT1 ☐ LDT2 ☒ MDV1 ☐ MDV2 ☐ MDV3 ☐ MDV4 ☐ MDV5 ☐

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO ☐ PH2 ☒ DIESEL: 13 CCR 2282 ☐ OR 40 CFR 86.113-90 ☐OR -94 ☐ M85 ☐ CNG ☐ LPG ☐ OTHER (SPECIFY) ☐FUEL TYPE(S): DEDICATED ☒ FLEX-FUEL ☐ DUAL-FUEL ☐ GASOLINE ☒ DIESEL ☐ M85 ☐CNG ☐ LNG ☐ LPG ☐ OTHER (SPECIFY) ☐HYBRID: TYPE A ☐ B ☐ C ☐ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT ☒ MID ☐ REAR ☐ DRIVE: FWD ☐ RWD ☒ 4WD-FT ☐ 4WD-PT ☒

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
3,3A	T10603+E62 T10653+E62 T10603+E63 T10803+E63 T10653+E63	M5	3875 4000	16200785/ 16192375-ENG 16187774-TRANS 16227245PF-OPER	17096188, 17096309	25152878
3B				16227502-ENG 16232915PG-OPER		
3C				16232336-ENG 16235505PH-OPER		
4,4A	CT10603+E62 TT10603+E62 CT10653+E62 T10603+E62 T10803+E63 TT10653+E62		4250 3875 4000 4250	16192375-ENG 16227245PF-OPER		
4B				16227502-ENG 16232915PG-OPER		
4C				16232336-ENG 16235505PH-OPER		

CARLINE NAME
CHEV S10 PICKUP 4WD
CHEV SONOMA PICKUP 4WD

CARLINE CODE
55037
80027

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

17-TGM4.32PGKEK-3.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEK

EVAP STD: 50K ~~X~~ USEFUL LIFE WITH R/L V

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0___ TIER-1 X TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1 XVEH CLASS(ES): PC___ LDT1___ LDT2 X MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO___ PH2 X DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___

OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)_____

FUEL TYPE(S): DEDICATED X FLEX-FUEL___ DUAL-FUEL___ GASOLINE X DIESEL___ M85___

CNG___ LNG___ LPG___ OTHER (SPECIFY)_____

HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT X 4WD-PT___

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
5A, 6A	T10506+F46 HT10506+F46	A4	4500	16200785/ 16187793-ENG 16187889, 16187890, 16215601-TRANS 16227245PF-OPER	17096188, 17096309	25152880
5B, 6B				16227487-ENG 16232915PG-OPER		
5C, 6C				16232320-ENG 16235505PH-OPER		

CARLINE NAME	CARLINE CODE
CHEV BLAZER AWD	55072
GMC JIMMY AWD	80062
OLDSMOBILE BRAVADA AWD	92520

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

17-TGM4.32PGKEK-4.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEK

EVAP STD: 50K ~~X~~ USEFUL LIFE WITH R/L ☒

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0___ TIER-1 ☒ TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1 ☒VEH CLASS(ES): PC___ LDT1___ LDT2 ☒ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO___ PH2 ☒ DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___

OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)_____

FUEL TYPE(S): DEDICATED ☒ FLEX-FUEL___ DUAL-FUEL___ GASOLINE ☒ DIESEL___ M85___

CNG___ LNG___ LPG___ OTHER (SPECIFY)_____

HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT ☒ MID___ REAR___ DRIVE: FWD___ RWD ☒ 4WD-FT___ 4WD-PT ☒

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
5.5A, 6.6A	T10516 T10506	A4	4250	16200785/ 16187793-ENG 16187889, 16187890, 16215601-TRANS 162267245PF-OPER	17096188 17096309	25152879, 25152880
5B, 6B				16227487-ENG 16232915PG-OPER		
5C, 6C				16232320-ENG 16234404PH-OPER		
7, 7A, 8, 8A	T10603+E62 T10603+E63 T10803+E63 T10653+E62 T10653+E63		4000 4250	16187797-ENG 16227245PF-OPER		25152878
7B, 8B				16227493-ENG 16232915PG-OPER		
7C, 8C				16232327-ENG 16235505PH-OPER		

CARLINE NAME	CARLINE CODE
CHEV BLAZER 4WD	55070
GMC JIMMY 4WD	80060
CHEV S10 PICKUP 4WD	55037
GMC SONOMA PICKUP 4WD	80027

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEK

EVAP STD: 50K ☒ USEFUL LIFE WITH R/L ☒

EVAPORATIVE FAMILY: TGM1089AYMEA

H STD: TIER-0 ☐ TIER-1 ☒ TLEV ☐ LEV ☐ ULEV ☐ ZEV ☐; EPA TIER-0 ☐ TIER-1 ☒VEH CLASS(ES): PC ☐ LDT1 ☐ LDT2 ☒ MDV1 ☐ MDV2 ☐ MDV3 ☐ MDV4 ☐ MDV5 ☐

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO ☐ PH2 ☒ DIESEL: 13 CCR 2282 ☐ OR 40 CFR 86.113-90 ☐OR -94 ☐ M85 ☐ CNG ☐ LPG ☐ OTHER (SPECIFY) FUEL TYPE(S): DEDICATED ☒ FLEX-FUEL ☐ DUAL-FUEL ☐ GASOLINE ☒ DIESEL ☐ M85 ☐CNG ☐ LNG ☐ LPG ☐ OTHER (SPECIFY) HYBRID: TYPE A ☐ B ☐ C ☐ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT ☒ MID ☐ REAR ☐ DRIVE: FWD ☐ RWD ☒ 4WD-FT ☐ 4WD-PT ☐

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
7.7A, 8.8A	S10516 S10506	A4	4000	16200785/ 16187797-ENG 16187889, 16187890, 16215601-TRANS 16227245PF-OPER	17096188, 17096309	25152879, 25152880
7B.8B				16227493-ENG 16232915PG-OPER		
7C.8C				16232327-ENG 16235505PH-OPER		
9.9A, 10.10A	S10516	M5	4000	16187797-ENG 16227245PF-OPER		25152879
9B.10B				16227490-ENG 16232915PG-OPER		
9C.10C				16232324-ENG 16235505PH-OPER		

CARLINE NAME
CHEV BLAZER 2WD
GMC JIMMY 3WD

CARLINE CODE
55090
80076

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TG117, ML-TR053, ML-TR063

17-TGM4.32PGKEK-6.1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.32PGKEK

EVAP STD: 50K ☒ USEFUL LIFE WITH R/L ☒

EVAPORATIVE FAMILY: TGM1089AYMEA

EXH STD: TIER-0___ TIER-1 ☒ TLEV___ LEV___ ULEV___ ZEV___; EPA TIER-0___ TIER-1 ☒VEH CLASS(ES): PC___ LDT1___ LDT2 ☒ MDV1___ MDV2___ MDV3___ MDV4___ MDV5___

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO___ PH2 ☒ DIESEL: 13 CCR 2282___ OR 40 CFR 86.113-90___

OR -94___ M85___ CNG___ LPG___ OTHER (SPECIFY)___

FUEL TYPE(S): DEDICATED ☒ FLEX-FUEL___ DUAL-FUEL___ GASOLINE ☒ DIESEL___ M85___

CNG___ LNG___ LPG___ OTHER (SPECIFY)___

HYBRID: TYPE A___ B___ C___ APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT ☒ MID___ REAR___ DRIVE: FWD___ RWD ☒ 4WD-FT___ 4WD-PT ☒

EXHAUST EMISSION CONTROL SYSTEM & COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
9A, 10,10A	T10603+E62 T10603+E63 T10803+E63 T10653+E62 T10653+E63 T10516	M5	4000	16200785/ 16187795-ENG 16187774.	17096188, 17096309	25152878
9B,10B				16227490-ENG 16232915PG-OPER		
9C,10C				16232324-ENG 16235505PH-OPER		

CARLINE NAME	CARLINE CODE
CHEV S10 PICKUP 4WD	55037
GMC SONOMA PICKUP 4WD	88027
CHEV BLAZER 4WD	55070
GMC JIMMY 4WD	80060

ISSUED: ML-TR009

REVISED: ML-TR028, ML-TR053, ML-TR063

17-TGM4.32PGKEK-7.1